

PRIMARY USE: For dispersion and infiltration of runoff from small sites.

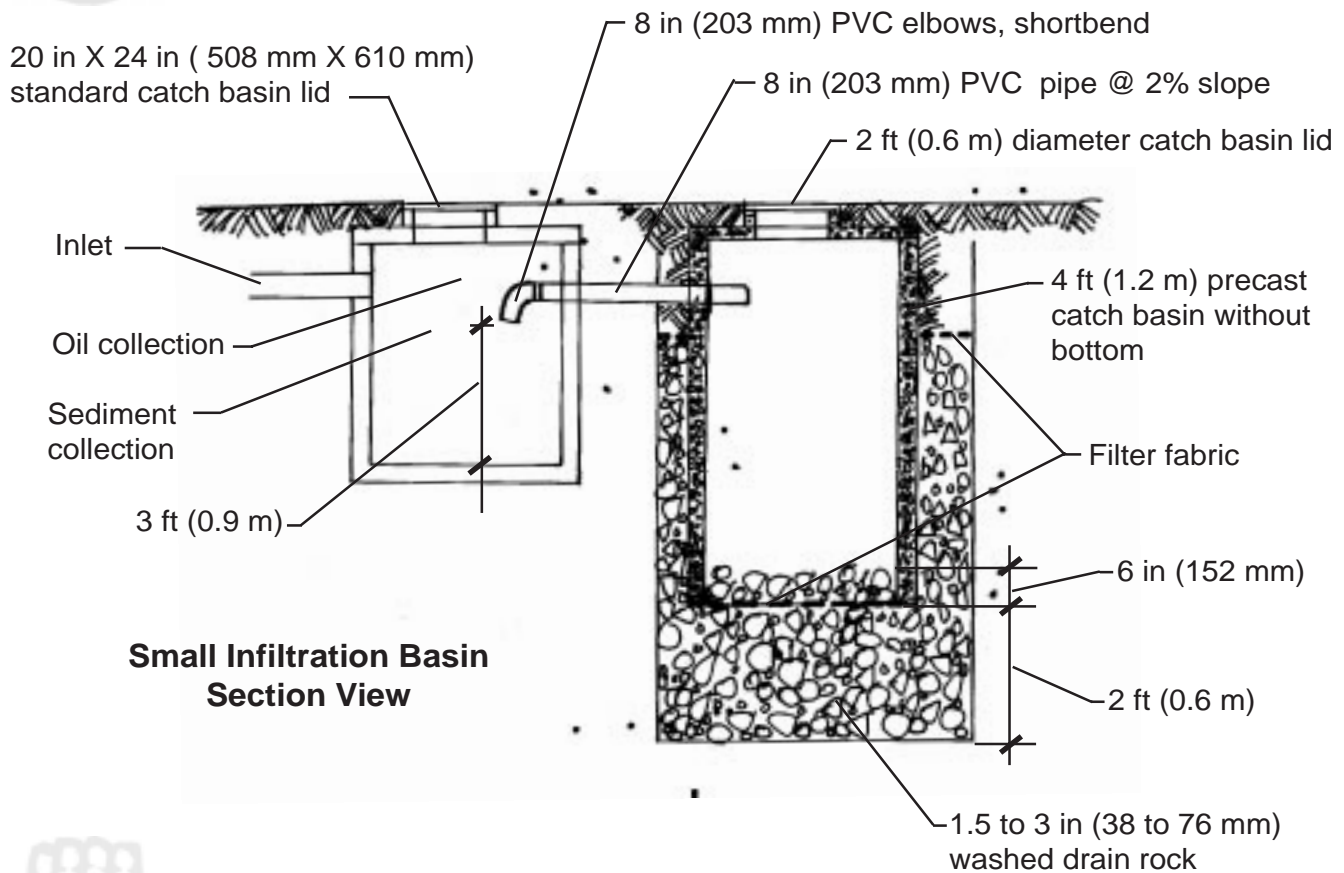
ADDITIONAL USES: Provide control of the peak discharge of large design storms.

SMALL INFILTRATION BASIN

What is it? The small infiltration basin is a bottomless, precast concrete catch basin or similar structure located in an excavation that is filled with washed drain rock. As such, they rely completely on the soaking of collected surface water into the ground.

Purpose

This is a simple and relatively inexpensive means allowing dispersion and infiltration of stormwater runoff for site surface areas of less than 5000 square feet (465 square meters).



Limitations

Soil must be permeable to a minimum depth of 3 ft (0.9 m) below the bottom of the basin.

Materials

Type II catch basin or equivalent; 1.5 to 3 in (38 to 75 mm) washed drain rock; filter fabric. Refer to accompanying sketch for material when a presettlement basin is used.

Installation

Infiltration facilities in general shall not be operated until site improvements producing surface runoff are complete. Presettlement is most easily achieved by a manhole or catch basin with a turned down elbow (see sketch).

Source: Surface Water Design Manual, King County Washington.